Test Report
Quality of Bitumen

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Bituminous Concrete (BC)
Contractor	Sri. R. Satheesh
Test Method	IS : 73 – 1992 & Specification for Road & Bridge Works, MORT&H,
Grade of Bitumen	60 / 70
Location	Hot Mix Plant
Material	Bitumen
Sample No	1
Date	7-Apr-2018

Sl. No.	Description	Test Results	Requirement as per IS:73 - 1992
1	Penetration at 25°C , 1 / 10 mm	66	60 – 70
2	Softening Point, (°C)	50	45 – 55
3	Specific Gravity	1.1	Min. 0.97
4	Ductility at 27°C, in cm	81	Min. 75
5	Flash Point, (°C)	181	Min. 175

Note:

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Authorised Signatory

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Quality of Bitumen

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Bituminous Concrete (BC)
Contractor	Sri. R. Satheesh
Test Method	IS : 73 – 1992 & Specification for Road & Bridge Works, MORT&H,
Grade of Bitumen	60 / 70
Location	Hot Mix Plant
Material	Bitumen
Sample No	2
Date	7-Apr-2018

Sl. No.	Description	Test Results	Requirement as per IS:73 - 1992
1	Penetration at 25°C , 1 / 10 mm	67	60 – 70
2	Softening Point, (°C)	49	45 – 55
3	Specific Gravity	1.1	Min. 0.97
4	Ductility at 27°C, in cm	79	Min. 75
5	Flash Point, (°C)	180	Min. 175

Note:

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Bangalore

Test Report
Rate of Spread of Tack Coat

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Bituminous Concrete (BC)
Contractor	Sri. R. Satheesh
Location	At Site
Material	Bitumen
Sample No	1
Date	11-Apr-2018

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m^2	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m^2	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.641	1.648	1.641
4	Final weight of plate after application of Tack Coat (c)	kg	1.659	1.654	1.655
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.018	0.006	0.014
6	Rate of spread (d/a)	kg / m^2	0.450	0.150	0.350
7	Average	kg / m^2	0.317		
8	Specified Limit	kg / m^2	Not less than 0.25 kg / m^2		

Results: Rate of Spread of Prime Coat / Tack Coat is: 0.317 kg / m2

Note:

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Asst. Executive Engineer
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Yelahanka Zone
Bangalore

Test Report
Rate of Spread of Tack Coat

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Bituminous Concrete (BC)
Contractor	Sri. R. Satheesh
Location	At Site
Material	Bitumen
Sample No	2
Date	11-Apr-2018

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m^2	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m^2	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.641	1.641	1.641
4	Final weight of plate after application of Tack Coat (c)	kg	1.658	1.653	1.654
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.017	0.012	0.013
6	Rate of spread (d/a)	kg / m^2	0.425	0.3	0.325
7	Average	kg / m^2	0.350		
8	Specified Limit	kg / m^2	Not less than 0.25 kg / m^2		

Results: Rate of Spread of Prime Coat / Tack Coat is: 0.350 kg / m2

Note:

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Bangalore

Test Report
Rate of Spread of Tack Coat

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Bituminous Concrete (BC)
Contractor	Sri. R. Satheesh
Location	At Site
Material	Bitumen
Sample No	3
Date	11-Apr-2018

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m^2	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m^2	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.641	1.648	1.641
4	Final weight of plate after application of Tack Coat (c)	kg	1.658	1.654	1.655
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.017	0.006	0.014
6	Rate of spread (d/a)	kg / m^2	0.425	0.15	0.35
7	Average	kg / m^2	0.383		
8	Specified Limit	kg / m^2	Not less than 0.25 kg / m^2		

Results: Rate of Spread of Prime Coat / Tack Coat is: 0.383 kg / m2

Note:

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Bangalore

Test Report
Rate of Spread of Tack Coat

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Bituminous Concrete (BC)
Contractor	Sri. R. Satheesh
Location	At Site
Material	Bitumen
Sample No	4
Date	12-Apr-2018

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m^2	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m^2	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.641	1.641	1.641
4	Final weight of plate after application of Tack Coat (c)	kg	1.659	1.654	1.653
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.018	0.013	0.012
6	Rate of spread (d/a)	kg / m^2	0.450	0.325	0.300
7	Average	kg / m^2	0.358		
8	Specified Limit	kg / m^2	Not less than 0.25 kg / m^2		

Results: Rate of Spread of Prime Coat / Tack Coat is: 0.358 kg / m2

Note:

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Bangalore

Test Report
Rate of Spread of Tack Coat

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Bituminous Concrete (BC)
Contractor	Sri. R. Satheesh
Location	At Site
Material	Bitumen
Sample No	5
Date	12-Apr-2018

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m^2	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m^2	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.641	1.641	1.641
4	Final weight of plate after application of Tack Coat (c)	kg	1.657	1.656	1.657
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.016	0.015	0.016
6	Rate of spread (d/a)	kg / m^2	0.400	0.375	0.400
7	Average	kg / m^2	0.392		
8	Specified Limit	kg / m^2	Not less than 0.25 kg / m^2		

Results: Rate of Spread of Prime Coat / Tack Coat is: 0.392 kg / m2

Note:

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Yelahanka Zone
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Test Report
Rate of Spread of Tack Coat

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Bituminous Concrete (BC)
Contractor	Sri. R. Satheesh
Location	At Site
Material	Bitumen
Sample No	6
Date	12-Apr-2018

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m^2	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m^2	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.641	1.641	1.641
4	Final weight of plate after application of Tack Coat (c)	kg	1.66	1.655	1.652
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.019	0.014	0.011
6	Rate of spread (d/a)	kg / m^2	0.475	0.35	0.275
7	Average	kg / m^2	0.367		
8	Specified Limit	kg / m^2	Not less than 0.25 kg / m^2		

Results: Rate of Spread of Prime Coat / Tack Coat is: 0.367 kg / m2

Note:

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Yelahanka Zone
Bangalore

Test Report
Rate of Spread of Tack Coat

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Bituminous Concrete (BC)
Contractor	Sri. R. Satheesh
Location	At Site
Material	Bitumen
Sample No	7
Date	13-Apr-2018

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m^2	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m^2	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.641	1.641	1.641
4	Final weight of plate after application of Tack Coat (c)	kg	1.658	1.657	1.656
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.017	0.016	0.015
6	Rate of spread (d/a)	kg / m^2	0.425	0.4	0.375
7	Average	kg / m^2	0.400		
8	Specified Limit	kg / m^2	Not less than 0.25 kg / m^2		

Results: Rate of Spread of Prime Coat / Tack Coat is: 0.400 kg / m2

Note:

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Bangalore

Test Report
Rate of Spread of Tack Coat

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Bituminous Concrete (BC)
Contractor	Sri. R. Satheesh
Location	At Site
Material	Bitumen
Sample No	8
Date	13-Apr-2018

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m^2	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m^2	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.641	1.641	1.641
4	Final weight of plate after application of Tack Coat (c)	kg	1.659	1.656	1.653
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.018	0.015	0.012
6	Rate of spread (d/a)	kg / m^2	0.450	0.375	0.300
7	Average	kg / m^2	0.375		
8	Specified Limit	kg / m^2	Not less than 0.25 kg / m^2		

Results: Rate of Spread of Prime Coat / Tack Coat is: 0.375 kg / m2

Note:

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